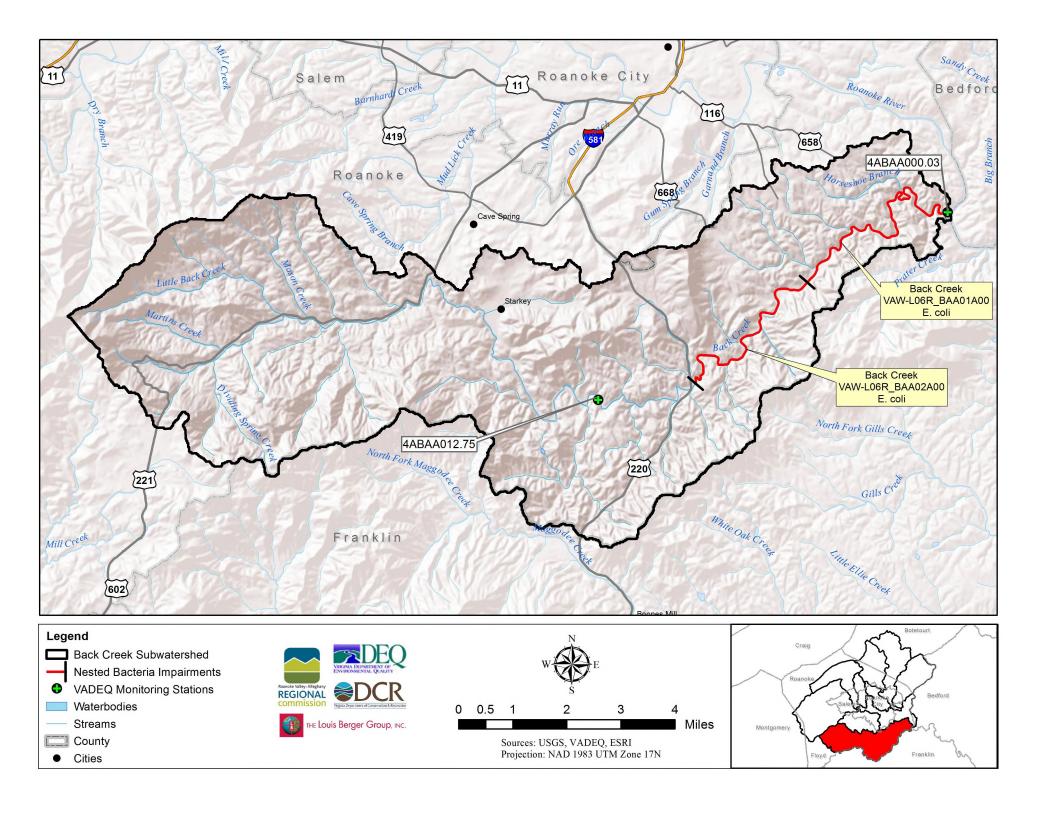


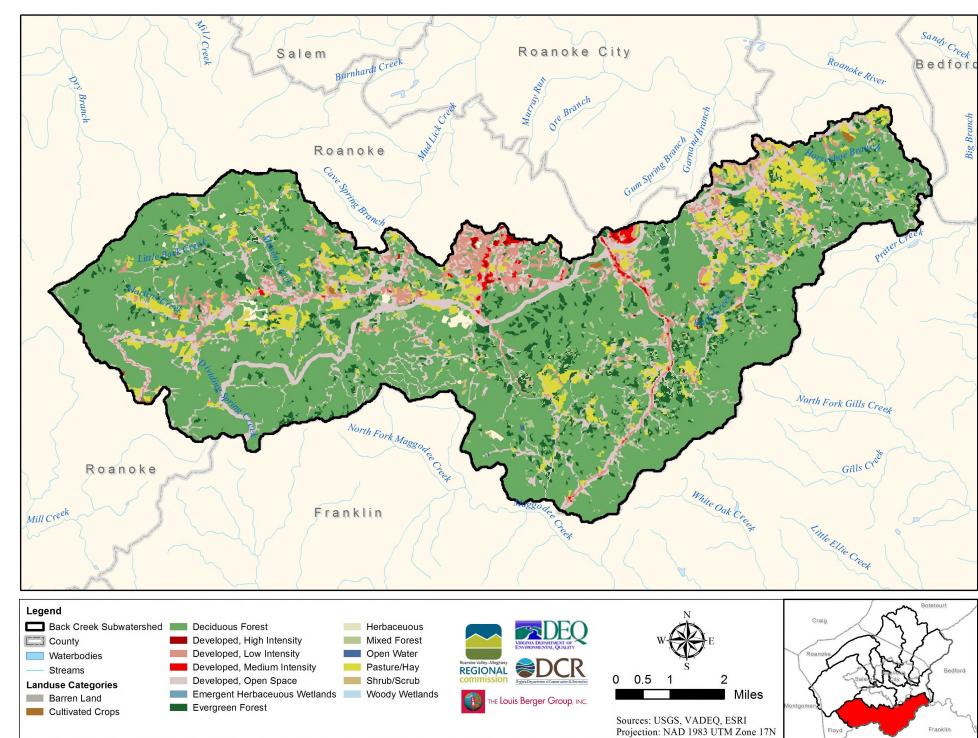


Back Creek Subwatershed









Impairment Summary

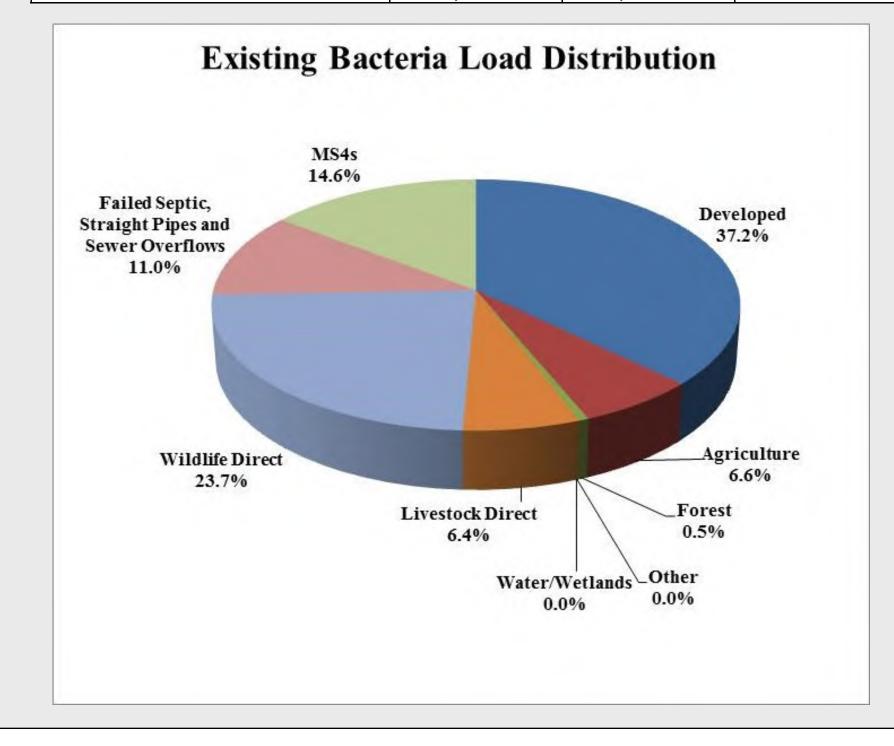
Assessment Unit	Stream Name	Length (miles)	Boundaries	Cause	
VAW- L06R_BAA01A00	Back Creek	5.65	Back Creek mainstem from the WQS designated end of the public water supply (PWS) section, ~0.83 miles upstream of the Rt. 116 crossing downstream to the Back Creek mouth; as determined from the 795 ft. Smith Mountain Lake pool elevation.	Escherichia coli	
VAW- L06R_BAA02A00	Back Creek	4.23	Back Creek mainstem waters from just below the Rt. 220 crossing (~0.5 mi), Red Hill at the mouth of an unnamed tributary to Back Creek on downstream to the WQS designated end of the PWS section, ~0.83 miles upstream of the Rt. 116 crossing.	Escherichia coli	

Land Use Distribution (NLCD 2006)

	Arc	Area		
Land Use Category	Acres	Percent		
Developed	6,905.4	18.4		
Agriculture	2,898.9	7.7		
Forest	27,557.1	73.3		
Water/Wetlands	19.7	0.1		
Other	221.8	0.6		
Total	37,603.0	100.0		

Existing and Allocated Bacteria Loads

Land Use/Source	Total Ann Loads (billi forming u	Percent Reduction		
	Existing Load	Allocation Load	(%)	
Land Based Non-point				
Developed	34,630.6	380.9	98.9%	
Agriculture	6,358.1	69.9	98.9%	
Forest	519.0	5.7	98.9%	
Water/Wetlands	0.1	0.1	0.0%	
Other	0.5	< 0.1	98.9%	
Direct Non-point				
Livestock Direct	6,194.8	0.0	100.0%	
Wildlife Direct	22,978.5	8,157.4	64.5%	
Failed Septic, Straight Pipes and Sewer Overflows	10,614.2	0.0	100.0%	
Point Source	0.0	0.0	0.0	
MS4s	15,499.7	170.5	98.9%	
Total	96,795.5	8,784.6	90.9%	



Existing Best Management Practices Agricultural and Stormwater

Agricultural Best Management Practice	Count	Area Treated	Streamlength Pro- tected (ft)
Alternative Water System	1	25	N/A

Stormwater Best Management Practice	Count	Reported Area Treated* (acres)
Detention Basin	54	1397.4
Extended Detention	3	14.1
Infiltration	2	5.9
Manufactured Unit	1	No Data
Sediment Basin	1	No Data
Sediment Forebay	1	13.2
Underground Detention	10	1.2
Wet Pond	5	30.4

*Not all Best Management Practices reported area treated

The municipalities are in the process of creating Best Management Practices inventories, so not all Best Management Practices present in the watershed may be reported.

Potential Implementation Actions to Reduce Bacteria

- . Existing Best Management Practice Retrofits
- . Low Impact Development Stormwater Controls
- . Livestock Exclusion from Streams
- . Riparian Buffer Creation/Expansion
- . Septic System Repair/Replacement
- . Pet Waste Disposal and Education Programs